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increase in gold output; while in Alaska the outlook is good for increased output of copper as well as gold. More Alaska mines are on a producing basis this year and more dredges are in operation.

THE PACIFIC COAST MEETING OF THE AMERICAN ASSOCIATION

Times and Places of Meeting.—The opening session of the Pacific Coast meeting of the American Association, for the presentation of the addresses of welcome and the response thereto, for announcements, and for the president's address, will be held in San Francisco at 10:00 o'clock, Monday morning, August 2, in the Scottish Rite Auditorium, corner Sutter Street and Van Ness Avenue. The social reception to visiting scientists and their friends will occur on Monday evening in the reception rooms of the California Host Building, Exposition Grounds. The general sessions of the association, including three lectures on Pacific region subjects, will be held in San Francisco in the Scottish Rite Auditorium on Tuesday, Thursday and Friday evenings. There will be no session or lecture on Saturday evening. The sessions of the association and of the affiliated societies on Wednesday, August 4, will be at Stanford University. It is expected that a special train will leave San Francisco at a convenient hour Wednesday morning for Palo Alto and return to San Francisco late in the afternoon. All other sessions of the week will be held at the University of California, in Berkeley.

Registration and Information Offices.—The general headquarters of the association during convocation week, August 2 to 7, will be in the Hearst Mining Building, on the campus of the University of California, Berkeley. Secondary offices will be maintained: in San Francisco from Saturday noon, July 31, to Friday noon, August 6, in the Palace Hotel; in San Francisco on Monday forenoon, August 2, in the Scottish Rite Building, Sutter Street and Van Ness Avenue; and in Stanford University on Wednesday, August 4. Members will secure badges and programs upon registration. Mail addressed in care of the Hearst

Mining Building, University of California, will be delivered as promptly as possible to those who have registered.

Hotel Headquarters.—Local representatives of several of the affiliated societies have announced selections of hotel headquarters as follows:

American Astronomical Society and the American Mathematical Society, Hotel Claremont, Berkeley.

American Physical Society, Hotel Claremont, Berkeley.

Geological Society of America, Paleontological Society of America and Seismological Society of America, Hotel Shattuck, Berkeley.

Botanical Society of America, Hotel Carlton, Berkeley.

Zoological Society of America and the Biological Society of the Pacific, Hotel Carlton, Berkeley. Entomological Society of America, Hotel Claremont, Berkeley.

American Anthropological Association, Hotel Carlton, Berkeley.

American Genetic Society, Hotel Claremont, Berkeley.

American Psychological Association, Hotel Plaza, San Francisco, Post and Stockton Streets.

Archeological Institute of America, Hotel Bellevue, San Francisco, Geary and Taylor Streets.

Railway Tickets.—Round trip special Exposition railway tickets at greatly reduced rates are available from all points to San Francisco, Los Angeles or San Diego as the destination. The price of tickets from points east of the Rocky Mountains is the same whether the destination be San Francisco, Los Angeles or San Diego. The trip going and returning may be by the same route or by different routes, but the routes described on the tickets must be followed. Tickets from Chicago and farther east are valid going or returning via New Orleans. Tickets via Portland, Seattle, etc., involve a supplementary charge, concerning which the local railway representatives should be consulted. The baggage of those who intend to stay in Berkeley should be checked directly to Berkeley, California (by either the Southern Pacific or Santa Fe routes) instead of to San Francisco. All round trip tickets require validation for the return trip,

on the day preceding or on the day of departure. Validating agents will be found at the city ticket offices and the main railway stations in San Francisco, Los Angeles and San Diego, at the Ferry Building, San Francisco, at the Southern Pacific Ferry Pier, Oakland, and at the Western Pacific Station, Oakland. A fee of fifty cents will be charged for the validation of each ticket.

APPOINTMENTS AT THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH

THE board of scientific directors of the Rockefeller Institute for Medical Research announces the following appointments and promotions:

Appointed an associate member:

Dr. James B. Murphy, hitherto an associate in the department of pathology and bacteriology.

The following have been made associates:

Dr. Carrol G. Bull (pathology and bacteriology).
Dr. Frederick S. Jones (pathology and bacteriology).

Dr. Clarence J. West (chemistry).
Dr. Michael Heidelberger (chemistry).
Dr. Frederick M. Allen (medicine).
Dr. Oswald T. Avery (bacteriology).
Miss Angelia M. Courtney (chemistry).
Dr. Eduard Uhlenhuth (experimental biology).

The following have been made assistants:

Dr. Harold K. Faber (pathology and bacteriology).
Mr. Chester H. Allen (chemistry).
Mr. James K. Senior (chemistry).
Mr. Glenn E. Cullen (chemistry).
Miss Mariam Vinograd (chemistry).

The following new appointments are announced:

Dr. R. Werner Marchand, assistant in department of animal pathology.
Dr. Carl Ten Broeck, associate in the department of animal pathology.
Dr. Herbert D. Taylor, assistant in pathology and bacteriology.
Dr. Oswald H. Robertson, assistant in pathology and bacteriology.
Mr. Ernest A. Wildman, fellow in chemistry.
Dr. Reginald Fitz, assistant in medicine and assistant resident physician.
Dr. Arthur L. Meyer, assistant in physiology and pharmacology.

SCIENTIFIC NOTES AND NEWS

SURGEON-GENERAL RUPERT BLUE, of the Public Health Service, was elected president of the American Medical Association at the recent San Francisco meeting.

LORD FISHER, former first sea lord of the British admiralty, has been appointed chairman of an "inventions board," which will assist the admiralty in coordinating and encouraging naval science.

DR. VIKTOR VON LANG, emeritus professor of physics at Vienna, has been elected president of the Vienna Academy of Sciences. The academy has elected as corresponding members Dr. Sven Hedin, the Swedish explorer, Dr. Max Planck, professor of mathematical physics at Berlin, and Dr. P. H. von Groth, professor of mineralogy at Munich.

AMHERST COLLEGE at its recent commencement conferred its doctorate of laws on Professor Benjamin K. Emerson, class of 1865, for forty-five years teacher of geology in Amherst College.

SHERBURNE WESLEY BURNHAM, for twenty years professor of practical astronomy in the University of Chicago and astronomer in the Yerkes Observatory, was given the honorary degree of doctor of science, at the commencement of Northwestern University.

IN conferring the Harvard doctorate of science on Dr. Frank Billings, President Lowell said: "Frank Billings, physician and citizen of Chicago; powerful in his profession and his community, who has inspired medical research, improved medical administration in his own state and promoted a higher grade of medical education throughout the land."

GENERAL WILHELM GRONER, head of the field railways of the German army, has been given honorary degrees by the University of Berlin and the Technical Institute of Stuttgart.

AMONG the fellows of the Royal Sanitary Institute recently elected are Dr. Julian Arce, director of the Department of Public Health of the Peruvian Republic, and Dr. Frank Fairchild Westbrook, president of the University of British Columbia.